This Listing of Claims will replace all prior versions, and Listings of Claims in the application:

Listing of Claims:

Claim 1 (Previously presented): A magnetic random access memory (MRAM) cell, comprising:

a word line;

a bit line perpendicular to the word line;

a magnetic device disposed at an intersection of the word line and the bit line, the magnetic device having a first end and a second end; and

a pair of writing magnets, one of the pair of writing magnets disposed opposite the first end of the magnetic device and separated from the first end of the magnetic device by an insulator, another of the pair of writing magnets disposed opposite the second end of the magnetic device and separated from the second end of the magnetic device by an insulator, wherein the pair of writing magnets switches a magnetic alignment of the magnetic device during a write operation.

Claim 2 (Original): A MRAM cell as recited in claim 1, wherein a current in the word line and the bit line generates a magnetic field on the pair of writing magnets during the write operation.

Claim 3 (Original): A MRAM cell as recited in claim 1, wherein the pair of writing magnets and the magnetic device are aligned along a long axis of the memory cell.

Claim 4 (Original): A MRAM cell as recited in claim 3, wherein the long axis of the memory cell is not aligned with the word line and the long axis is not aligned with the bit

line.

Claim 5 (Original): A MRAM cell as recited in claim 1, wherein the magnetic device

includes a magnetic tunnel junction (MJT).

Claim 6 (Original): A MRAM cell as recited in claim 1, wherein the magnetic device

includes a giant magnetoresistance (GMR) material.

Claim 7 (Original): A MRAM cell as recited in claim 1, wherein the magnetic device

includes a colossus magnetoresistance (CMR) material.

Claim 8 (Original): A MRAM cell as recited in claim 1, wherein the magnetic device

includes an anisotropic magnetoresistance (AMR) material.

Claim 9 (Original): A MRAM cell as recited in claim 1, wherein each writing magnet

includes a soft ferromagnetic material.

Claim 10 (Original): A MRAM cell as recited in claim 1, wherein each writing

magnet includes a general ferromagnetic material.

Claim 11 (Original): A method for performing a write operation to a magnetic

random access memory (MRAM) cell, comprising the operations of:

supplying a current to a word line and a bit line of the MRAM cell;

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magnetic device; and

generating a magnetic field using the currents in the word line and the bit line, wherein the magnetic field is applied to a pair of writing magnets disposed at either end of a

generating a field strength using the writing magnets, the field strength capable of switching a magnetic alignment of the magnetic device.

Claim 12 (Original): A method as recited in claim 11, wherein the current applied to the word line and the bit line is on an order of magnitude of 100 mA.

Claim 13 (Original): A method as recited in claim 11, wherein each writing magnet includes a soft ferromagnetic material.

Claim 14 (Original): A method as recited in claim 11, each writing magnet includes a general ferromagnetic material.

Claim 15 (Original): A method as recited in claim 11, wherein the pair of writing magnets and the magnetic device are aligned along a long axis of the memory cell.

Claim 16 (Previously presented): A magnetic random access memory (MRAM) array, comprising:

a plurality word lines and bit lines, each bit line being perpendicular to the plurality of word lines;

a plurality of magnetic devices, each magnetic device disposed at an intersection of a word line and a bit line, and each magnetic device having a first end and a second end; and

a plurality of writing magnets, each writing magnet disposed opposite one of the first

and second ends of a magnetic device and separated from the first or second end of the

magnetic device by an insulator, wherein writing magnets associated with a particular

magnetic device switch a magnetic alignment of the particular magnetic device during a write

operation.

Claim 17 (Original): A MRAM array as recited in claim 16, wherein each magnetic

device is associated with two writing magnets, and wherein each writing magnet is associated

with one magnetic device.

Claim 18 (Original): A MRAM array as recited in claim 16, wherein each magnetic

device is associated with two writing magnets, and wherein each writing magnet can be

associated with two magnetic devices.

Claim 19 (Original): A MRAM array as recited in claim 16, wherein a current in a

particular word line and a current in a particular bit line generates a magnetic field on a pair

of writing magnets during the write operation.

Claim 20 (Original): A MRAM array as recited in claim 19, wherein each intersection

of a word line and a bit line includes a pair of writing magnets and the magnetic device that

are aligned along a long axis of a memory cell formed at the intersection.

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